

CITY OF HAYWARD AGENDA REPORT

AGENDA DATE 07/02/02

AGENDA ITEM 3

WORK SESSION ITEM _____

TO: Mayor and City Council

FROM: Director of Public Works

SUBJECT: Conversion of Digester No. 3 to Primary Mode, Repair of Digester No. 2 Dome:
Approval of Plans and Specifications and Call for Bids

RECOMMENDATION:

It is recommended that the City Council approve the attached resolution approving the plans and specification for the conversion of the WPCF Digester No. 3 and repair of Digester No. 2 dome and call for bids to be received on August 13, 2002.

BACKGROUND:

The WPCF has three digesters, of which only two provide primary treatment of sludge (produce methane gas and convert solids to simpler forms for ultimate disposal). The third, Digester No. 3, constructed in 1954, currently does not operate in primary mode. The attendant heat exchange and mixing systems deteriorated over time, becoming marginally functional, and the digester has served as a sludge storage tank (secondary digester) since 1990. Sludge generation at the WPCF has increased to the point where two digesters can no longer adequately treat the amount of sludge being generated. Three primary digesters are now needed to allow operational flexibility and backup when one digester is taken off line. Providing new heat exchange and mixing systems will convert Digester No. 3 to the primary mode, thereby providing three primary digesters at the WPCF.

The cost of this project has increased since preliminary design. The increase directly relates to three factors. Due to the abundance of underground facilities, retrofit work within the core of the treatment plant has proven to be more complex than originally envisioned. Staff has opted to provide one large boiler that serves all three digesters rather than have a single boiler for each of the digesters. This was prompted by the fact that, in addition to Digester No. 3 no longer having a boiler, the boiler for Digester No. 2 is no longer functional, and the boiler for Digester No. 1 is reaching the end of its functional life. Finally, as recommended by an earlier engineering report, seismic connections for existing piping associated with Digester No. 3 will be provided in this project.

Digester No. 2 was constructed in 1961 with a reinforced concrete dome roof. Fine cracks have developed over time through which methane gas, produced during the digestion process, now escapes. Roof repair will eliminate that problem, improve the functionality, and prolong the service life of the digester roof.

The conversion and dome repair are categorically exempt from environmental review under the California Environmental Quality Act (CEQA). The Public Resources Code states that CEQA does not apply to modifications of Class I Existing Facilities, e.g., existing facilities of publicly-owned utilities used to provide public utility services.

Staff has established a combined goal of 10 percent for Disadvantaged Business Enterprise (DBE) and Women Owned Business Enterprise (WBE) participation for this project. The combined goal is somewhat limited due to lack of available subcontracting opportunities.

PROJECT COST:

The estimated costs of the project are as follows:

Design and administration	\$ 690,000
Construction	2,100,000
Construction administration and Inspection	80,000
Total	<u>\$2,870,000</u>

FUNDING:

The recently approved 2002-03 Capital Improvement Program includes \$2,915,000 in the Water Pollution Control Replacement Fund for this work, funded as two separate projects.

SCHEDULE:

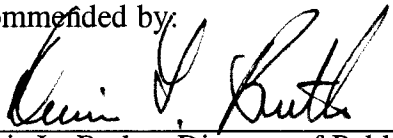
Advertise for bids	July 2, 2002
Open bids	August 13, 2002
Award construction contract	September 10, 2002
Complete construction	April 30, 2003

Prepared by:



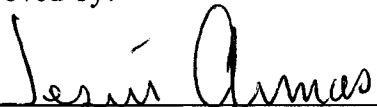
Alex Ameri, Deputy Director of Public Works

Recommended by:



Dennis L. Butler, Director of Public Works

Approved by:



Jesus Armas, City Manager

Attachments: Exhibit A: Project Location Map

DRAFT

HAYWARD CITY COUNCIL

RESOLUTION NO. _____

Introduced by Council Member _____

RESOLUTION APPROVING PLANS AND
SPECIFICATIONS FOR THE CONVERSION OF THE
WATER POLLUTION CONTROL FACILITY DIGESTER
NO. 3 TO PRIMARY MODE AND REPAIR OF
DIGESTER NO. 2 DOME PROJECTS, PROJECT NOS.
7645 AND 7642, AND CALL FOR BIDS

BE IT RESOLVED by the City Council of the City of Hayward as follows:

1. That those certain plans and specifications for conversion of Digester No. 3 to Primary Mode, Project No.7645 and repair of Digester No. 2 Dome, Project No.7642, on file in the office of the City Clerk, are hereby adopted as the plans and specifications for the project; and
2. That the City Clerk is hereby directed to cause a notice calling for bids for the required work and material to be made in the form and manner provided by law; and
3. That sealed bids therefor will be received by the City Clerk's office at City Hall, 777 B Street, Hayward, California 94541, up to the hour of 2:00 p.m. on Tuesday, August 13, 2002, and immediately thereafter publicly opened and declared by the City Clerk in the Public Works Conference Room, City Hall, Hayward, California; and
4. That the City Council will consider a report on the bids at a regular meeting following the aforesaid opening and declaration of same; and
5. The conversion and dome repair are categorically exempt from environmental review under the California Environmental Quality Act (CEQA).

IN COUNCIL, HAYWARD, CALIFORNIA _____, 2002

ADOPTED BY THE FOLLOWING VOTE:

DRAFT

AYES: COUNCIL MEMBERS:
MAYOR:

NOES: COUNCIL MEMBERS:

ABSTAIN: COUNCIL MEMBERS:

ABSENT: COUNCIL MEMBERS:

ATTEST: _____
City Clerk of the City of Hayward

APPROVED AS TO FORM:

City Attorney of the City of Hayward